



NC/QC/YPD/SIP-05/2018-19/DP-CB2A

Date: 18-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE**CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	21-03-18	18-04-18	28	22500	530	23.56	23.19
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	515	22.89	

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NC/QC/YPD/SIP-05/2018-19/DP-CB3A

Date: 19-04-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-03-18	19-04-18	28	22500	535	23.78	23.33
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	515	22.89	

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NC/QC/YPD/SIP-05/2017-18/DP-G1

Date: 24-03-2018

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (with close graded materials, Grade-II) mix.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
26.50	98.15	70-100
9.50	74.05	50-80
4.75	58.45	40-65
2.36	39.10	30-50
0.425	14.30	10-15
0.075	3.90	<5

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Date: 24-03-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.36 %	Not more than 2.0 %
2.	Liquid Limit, %	18.19	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.04	-----
5.	Aggregate Impact Value, %	25.16	Not more than 40.00 %

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NC/QC/YPD/SIP-05/2017-18/DP-C3

Date: 26-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	153 min	Shall not be less than 30 min
2	Final setting time	272 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.22 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.16 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.68 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2017-18/DP-PCC2

Date: 26-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	68.20	0 -20	30- 70
10mm	19.35	0 -5	10- 35
4.75mm	4.70	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.30	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	89.20	60-95	75-100	85-100	
01.18	67.45	30-70	55-90	75-100	
600.mic	48.85	15-34	35-59	60-79	
300.mic	16.30	5-20	8-30	12-40	
150.mic	8.60	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2017-18/DP-C4

Date: 29-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	269 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.19 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.02mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	28.96 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2017-18/DP-PCC3

Date: 29-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	65.10	0 -20	30- 70
10mm	19.50	0 -5	10- 35
4.75mm	4.75	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.50	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	85.20	60-95	75-100	85-100	
01.18	73.10	30-70	55-90	75-100	
600.mic	48.35	15-34	35-59	60-79	
300.mic	19.05	5-20	8-30	12-40	
150.mic	9.60	0-10	0-10	0-10	

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NC/QC/YPD/SIP-05/2018-19/DP-C5

Date: 03-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	165min	Shall not be less than 30 min
2	Final setting time	275min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.26 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.14 mm	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	28.08 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/YPD/SIP-05/2018-19/DP-PCC4

Date: 03-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements CC Road and Drain at Kattigenahalli, Dwarakanagara, Palanahalli and surrounding area in ward No. 05.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	68.35	0 -20	30- 70
10mm	17.90	0 -5	10- 35
4.75mm	4.45	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	89.30	60-95	75-100	85-100	
01.18	72.00	30-70	55-90	75-100	
600.mic	48.35	15-34	35-59	60-79	
300.mic	18.15	5-20	8-30	12-40	
150.mic	8.05	0-10	0-10	0-10	

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